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(54) Storing data objects in a smart card memory

(57)The invention refers to a method for storing data objects 210, 220, 230, 240 in the memory 200 of a smart card 100. To do this, general and application-specific data objects are defined using freely selectable security characteristics and access rights, which are filed in the memory of a smart card which is divided into several application-specific memory areas 110, 120 so that data objects with identical access conditions are located in one and the same memory area, irrespective of the application program 310, 320, 330 or smart card user 400 to which these data objects are allocated. All application programs and the smart card user can access the data objects irrespective of the corresponding access conditions. In this way, the re-issuing of smart cards in the case of later expansion of the file structure of the smart card for an application or the addition of extra applications is not necessary. The smart card user can allow any applications to store data on his smart card.

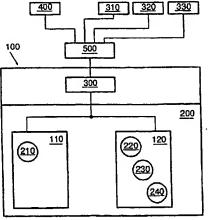


FIG. 2



EUROPEAN SEARCH REPORT

Application Number EP 99 11 3202

Category		indication, where appropriate,	Relevant	CLASSIFICATION OF THE
X	of relevant pas WO 98 09257 A (GEMI 5 March 1998 (1998-	1,5,6,11	G07F7/10 G06K19/073	
Y A	* page 2, line 20 - * page 9, line 22 - figures 1-9 *	- page 8, line 18 *	2-4,10 7-9	
Y,P		A INTERNATIONAL SERVI Ober 1998 (1998–10-01		
A,P	* page 4, line 2 - * page 8, line 2 - figures 1-13 *	page 5, 11ne 28 *	1,3-11	
Y	WO 98 25239 A (STR/ 11 June 1998 (1998-	ATEGIC ANALYSIS, INC.) 3,4,10	
A	* page 2, line 36 - * page 6, line 30 -		1,11	
х	WO 96 19771 A (EURO 27 June 1996 (1996-	-06-27)	1,11	TECHNICAL FIELDS SEARCHED (Int.CI.7)
A	* page 3, line 25 - * page 5, line 13 - figures 1-4 *	page 9, line 3;	2-10	G07F G06K
X	US 5 473 690 A (GRI 5 December 1995 (19		1,11	
A	* column 3, line 46	5 - column 4, line 27 5 - column 11, line 2	* 2-10 ;	
A	MACHINES CORPORATION 27 July 1988 (1988- * column 2, line 46			
		-/		
1	The present search report has	been drawn up for all claims		
_	Place of search	Date of completion of the sear	1	Examiner
	THE HAGUE	16 February 2		ero, C
X : parti Y : parti docu	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone cularly relevant if combined with ano ment of the same category notogical background	E : earlier pate after the fill ther D : document L : document	cited in the application cited for other reasons	



EUROPEAN SEARCH REPORT

Application Number EP 99 11 3202

Category	Citation of document with indicat of relevant passages	ion, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL7)
A	GB 2 314 948 A (INTERN MACHINES CORPORATION) 14 January 1998 (1998- * page 2, line 36 - pa * page 5, line 31 - par figures 1-3 *	01-14) ge 4, line 34 * ge 8, line 17;	,10,11	
	The present search report has been o	trawn un for all claims		
	Place of search	Date of completion of the search	,	Examiner
	THE HAGUE	16 February 2001	Rive	ero, C
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure		T : theory or principle un E : earlier patent docum after the filing date D : document cited in the	T : theory or principle underlying the invention E : earlier patent document, but published on	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 11 3202

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

16-02-2001

	Patent documen ed in search rep		Publication date		Patent family member(s)	Publication date
WO	9809257		05-03-1998	US	5923884 A	13-07-199
				AU	4842897 A	19-03-199
				CA	2233217 A	05-03-199
				EP	0858644 A	19-08-199
WO	9843212	Α	01-10-1998	AU	6578698 A	20-10-199
				EP	1004992 A	31-05-200
				EP	1021801 A	26-07-200
				US	6005942 A	21-12-199
WO	9825239	A	11-06-1998	AU	5595398 A	29-06-199
				EP	0943136 A	22-09-199
WO	9619771	A	27-06-1996	US	5636357 A	03-06-199
				AU	4644196 A	10-07-199
US	5473690	A	05-12-1995	FR	2673476 A	04-09-199
				DE	69205425 D	16-11-199
				DE	69205425 T	21-03-199
				EP	0589884 A	06-04-199
				ES	2082451 T	16-03-199
				WO	9213322 A	06-08-199
				JP	6504862 T	02-06-199
EP	275510	Α	27-07-1988	CN	87108157 A,B	31-08-198
				DE	3782328 A	26-11-199
				DE	3782328 T	22-04-199
				JP	63182795 A	28-07-198
				KR	9107037 B	16-09-199
GB	2314948	A	14-01-1998	DE	19626339 A	08-01-199
				HU	9701130 A	28-04-199
				JP	10171716 A	26-06-199
				PL	320722 A	05-01-199
				US	6145080 A	07-11-200

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